Johnson, Gary L.

1995 Gordon Research Conferences

on Molecular Pharmacology

February 12-17, 1995

Holiday Inn, Ventura, CA

Monday A.M.

Session I: ***Structure, Function and Regulation of G Protein-coupled Seven Transmembrane Receptors***

Chair: Marlene Hosey - Introduction

Lee Limbird, Vanderbilt University, Nashville, TN - *Alpha 2-adrenergic receptors: Structural basis for specificity in coupling to distinct signaling pathways and for localization in polarized cells*

Marlene Hosey, Northwestern University, Chicago, IL - *Regulation of muscarinic acetylcholine receptors by protein phosphorylation*

Shaun Coughlin, University of California, San Francisco, CA - *Thrombin receptor structure and function*

Jeffrey Benovic, Thomas Jefferson Medical School, Philadelphia, PA - *Regulation of G protein-coupled receptor signaling*

Monday P.M.

Session II: ***Function and Properties of Heterotrimeric G Proteins***

Chair: Eva Neer - Introduction

Patrick Casey, Duke University, Durham, NC - *Functional consequences of G protein prenylation*

Henry Bourne, University of California, San Francisco, CA - *Structure/function of G proteins*

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Graeme Milligan, University of Glasgow, Glasgow, Scotland - *Agonist regulation of cellular G protein levels and distributions: Mechanisms and functional implications*

Eva Neer, Brighams & Womens Hospital, Boston, MA - *The βγ subunit of heterotrimeric G proteins*

Tuesday A.M.

Session III: G Protein Effectors

Chair: Lee Limbird - Introduction

Ravi Iyengar, Mt. Sinai Medical School, New York NY - *Structure-function relationships of mammalian adenylyl cyclases*

Paul Sternweiss, Texas Southwestern Medical School, Dallas, TX - *Regulation of phospholipase D*

Heidi Hamm, University of Illinois Medical School, Chicago, IL - *Structural requirements for transducin interaction with rhodopsin and cGMP PDE*

David Clapham, Mayo Clinic, Rochester, MN - *$G_{\beta\gamma}$ activation of the cardiac muscarinic-gated K channel*

Tuesday P.M.

Session IV: Low Molecular Weight G Proteins

Chair: Gary Bokoch - Introduction

Gary Bokoch, Scripps Research Institute, La Jolla, CA - *Regulation of cell function by Rac and Rho GTP-binding proteins*

Richard Cerione, Cornell University, Ithaca, NY - *A Ras-like protein that may regulate the cell cycle and cytokinesis*

Richard Kahn, NIH, Bethesda, MD - *The biology of ARF proteins: Roles in membrane and lipid traffic*

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Ian Macara, University of Vermont Medical School, Burlington, VT - *The RAN GTPase: A key player in nuclear protein and RNA transport*

Wednesday A.M.

Session V: ***Inactivation of Signal Transduction Genes***

Chair: Brian Kobilka - Introduction

Geunter Schultz, Berlin, Germany - *Assignment of G protein subtypes to specific receptors and ion channel regulation using antisense oligonucleotides for Gα, β and γ subunits*

Brian Kobilka, Stanford University, Stanford, CA - *The physiology of alpha 2 adrenergic receptors in transgenic mice*

Craig Malbon, SUNY at Stony Brook, Stony Brook, NY - *Analysis of Gα_{i2} and Gα_q-deficiency in transgenic mice*

Gail Martin, University of California, San Francisco, CA - *Function of FGFs in the developing mouse embryo*

Wednesday P.M.

Session VI: ***Model Systems in Signal Transduction***

Chair: Rick Firtel - Introduction

Rick Firtel, University of California, San Diego, La Jolla, CA - *Signaling pathways controlling spatial and temporal regulation of gene expression in Dictylostelium*

Charles Zucker, University of California, San Diego, La Jolla, CA - *Genetic and biochemical analysis of phototransduction in Drosophila*

Jeremy Thorner, University of California, Berkeley, CA - *Multi-drug resistance genes in Saccharomyces cerevisiae*

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Thursday A.M.

Session VII: Mini Symposium on Cell Signaling

Chair: Heidi Hamm - Introduction

Roger Davis - University of Massachusetts Medical School, Worcester, MA - *Regulation of gene expression by JNK and ERK isoforms of MAP kinase*

Rusty Williams, University of California, San Francisco, CA - *Signalling molecules that mediate the actions of tyrosine kinase receptors*

Joe Noel, Salk Institute, La Jolla, CA - *The stereochemistry of visual transduction: crystallographic analysis of transducin's alpha subunit*

Thursday Evening Lecture

Stuart Schreiber, Harvard University, Boston, MA - *A chemical approach to understanding and controlling signal transduction*

Friday A.M.

Session VIII: Structure-based Drug Design

Chair: Fred Cohen - Introduction

Fred Cohen, University of California, San Francisco, CA - *Protein structure: Implications for disease and drug design*

Al Tulinsky, Michigan State University, East Lansing, MI - *Molecular interactions of thrombin*

Ron Zuckerman, University of California, Berkeley, Berkeley, CA - *Drug discovery using diverse oligo (N-substituted) glycine libraries*

James Wells, Genentech, San Bruno, CA - *The growth hormone receptor complex: a paradigm for hormone receptor interactions*

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